### MPROVED REPRESENTATION OF CROSS-SHORE SEDEMENT TRANSPORT CRASS-CETTRETICS

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2004

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## 1.2.2.1 Startistical successful in conditioning break profile

Through embres of breach you like the date that the Starth See cases and Massion.

Buy California, Brown (1954) Sound that profiles sanded to follow the empiricalist control

where A is a dimensional scale parameter with axis of length  $^{\circ}$  and depends principly on software discontinuities

Using NG best profile free the Advance on CMM forces shorther and a lossoperary position. One (1979) Sized on equations of the form it  $m, p^m$ . A remark robot of m = 20 are Guad, which, associated to best waver flowery, a sensitive of with entires were causing descriptions part unit valued without the soft case in the demand description about

Bodys (1992) propried as expensional expensions for equilibrium profile or

A =  $(b_1 - b_2)^{-2}$  (2.3) where B and b are notice personnels. This appropriate dops with the 3.05 pear regillerinanged filters of the v and d (d in the 3.05 leading still fine 5.05 keV). As a regillerinanged filter on b (d in c) and d (d in d) and d in d i direction. Bowerst, no interest was made to consists the parameters with brech or was interestinated.

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Figure 1-3: Definition should affect been and showing profits (because at al., 19

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by h - Ag<sup>a.</sup> The profile mobil has 8 parameters requiring quantifications.

the larger of all (1991) approach the reproducing the community observed but and in

The fore expressional are

Leadward of the hire creat, characterized by a hashward day and a landward extracting death. The decreased hasheshouses arrange in send mercy destination as the has tree.

$$-k_{\mu} + \frac{k_{\mu} - a_{\mu}}{x_{\mu} - x_{\nu}} (\nu - y_{\nu}), y_{\mu} v_{\mu} v_{\mu}$$
 (1.6)

Note shows, from the bar come in the elevent depth, the preferance demonstral by some

In 17 County 17 - Septiment of a great state of great state for some next not matched, and Ag are different local to present on stated in great state for some next not matched, respectively, as, and as an emperate shape parameters consisting the heads slopes, b, and y, are wasted dopth at though and are distance as the absorbine, b, and y, as were time of the parameter of the distance or that distance as the destance from a counter were time in the parameter of the distance or that the other in the state of the annual counter. is the observe depth of the profile and p<sub>1</sub> is the instrupt of the number points with one were been. The question, we wan break to be and approximately \$2.00, which is possible approximately and in a record from the result of \$2.00, and with a projection. So, then is recorded from the results of the relation of the observation of which projects in terrelating or \$1.20 personation, using of which can be admissionf without extraction of the profile. Thus, the model can be applied as a diagnossia, for our a model that of the profile.

### 1.3.3.2 Exact on excilibrium mechanism

disvised QVIDIX contribution as explantions from a million model oring as inverging activities of expendibilities of the contribution of the contribution of a procedure or and no decay with the forestfeet. The fine-order problem, exemung expendition wave-orbital assessing profession as the production of the property exemunity foresteeping of the department of the contribution of

Service of the qualifit is recognize opposition for both and an appropriate found under study, deveror, Learn's cry (ME) developed in a requisition range point in model behaved on the influencing considerations of (3) deviates anothering pressure or lament greater and study (3) the final software transport in measurem due to the verse whole velocity approach, (5) deposition of the support or allowed and cross or separate for the proposits of the proposition who must connected out of the uniform reducing. The world cruster as, 18-16.



where y is provise restore well engine of the featuring point, if a visual depth, is in the water depth converbed interpreted in 1918, the west feetile, we will expect the first indeed, it, in the water plane age of the feature feature feetile is context of the con-19<sup>17</sup>. Orang we different plane of the feature feetile interview feetile indicates recoposation from the treatment of the context of the context of the concernation from the treatment of the context of the context of the concernation feetile interview of the context of the conte

Figure 1-4: Comparison former manned and decreased ERP (Leonins, 1965). Solid line 1 and declard line 2 solid in manned set adopted yealing, respectively

by replacing the spilling fremder counterface with the breaking model by Shilly et al.
(ISSA), which counters the dissipation clar in breaking to the sent steer to be given by

where the average that  $P = E\Gamma_{\mu\nu}P_{\mu}$  is the matrix energy than benefit on a minimization wave barglet  $M_{\mu} = TR$ . Equating this energy that relationship in Denni's uniform energy disagnifies per unit ordinar book in the revisions qualificient prefits.

$$y = 2\frac{h}{K} + \frac{1}{24} g \pi^{\frac{3}{2}} \left[ \frac{2^{-\frac{3}{2}} \tilde{b}}{\Omega_{\epsilon}} \right]$$
 (1.10)

which excludes a basis tend that account the inflate elept at the election first over \$6,11. Done (1901) inhamed a similar force by underlying effect of growty.

under random worse by using the numbers work designates maded from Thomass and Class (1985). They obtained the following simple EFF model:

-

$$S = \left(\frac{136Q_{1}}{1446^{-1}} \left[\frac{d}{r^{2}Q_{1}}\right]^{2}\right)^{\frac{1}{2}}$$
(9.15)

Loom of a CRITI, amount copie found and adult information in producing with a given administration of the Critical and its based up were to be controlled for nevert-tropped and technistics and copbilities and the companion of the controlled and the copie of the CRITICAL and the copie of the copie of the copie of the copie of the CRITICAL and the copie of the copie of the copie of the copie of the based on the copie of the based on the copie of the based on the copie of the the copie of the copie creditions of equipment and the presence mechanism. The scoking EEP stops ander breaking and predemines arrange as a combine

Y=0', -100-102, Y=0'

when A and D are distanced, shapp parameters. A well-and to grate visit for fall, growth, whomen 3 are it feeting an Officion to red conditions and indistance characteristics. This values of this growers were destinated to the par = 23 and a = 0.15 to 0.29. Note that the decrement ESP models were extendity leveral or accordances for preparametering were problement and that ESPs of lever conditioners were one of this standard implicitly.

Whether or all (2009) proposed a new against such profile devaulation that trees the shooting portion of the profile collapsedonity from that of the hearing parties. The ferministics associate vertex of more fram the books and the resistance of use level due to hold. The throation fram or this associate is to have vertexpel event every fine.

$$\frac{dF}{dr} = -c \qquad (5.50)$$

wheat P in the set absenced energy this per unit with early in the energy despitation rule per unit arefers sent. The experies involves from variables, were largel, west right and wave mengo despitation. The different wave energy despitation and the advantage of the period of the p

## . 137s sole besting were

where D<sub>s</sub> is the source energy describing to use traces depth caused by exist intelling, y is the breaker to depth paths, B is a separated which depends on waves proved, and is related to the reflected energy flow and is soon of collections in magnifying.

# IRPs ander norhanikasy vervos

$$N = \beta \sqrt{\lambda}$$
 (1.2)  
 $N = \beta \sqrt{\lambda}$  (2.2)  
 $Y = y - y_1 - (\frac{\lambda}{\zeta^2})^{2/2} + \frac{D}{\zeta^{2/2}} N_{-2} y_1 y_2 y_3$  (1.2)

$$= \frac{hh_{2}^{2}}{2g^{2}H_{2}^{2}h_{2}^{2}}$$
(2.36)

shedag perilis.

An aurena in wors harjd with hers can klinis on die equilibreum slope. Fins,
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F-1991(41.34G)	0	2

113 Year-entirem grain size others

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$$D_{\alpha} + D_{c} + (D_{c} - D_{c}) \exp(-2\rho) \qquad (5.36)$$

where  $D_i$  and  $D_i$  are the equilibrium energy dissipation for the content of the sharehold and the children conjustmenty ( $D_i > D_i$ ), and  $\lambda$  as an emperical analytic interacting the

can a which  $\Sigma_{k_0}$  approaches  $\Sigma_{k_0}$  . The equilibrium profile shape a given by

$$s = s(r + \frac{1}{4}s\frac{\partial r}{\partial r} - 100 - s^{-1})^{\frac{1}{2}},$$
 (3.3)

or which A so defined based on the "Three different bening profile date note soon used to emproy the model of equilibrium profile shape with the element 2.5 overw requisitions profile, and a before \$K with the measured profile was based by the models equilibrium models from:

### 1.2.3 Feeco Acting in the Neurobert

"Institutioner" from a coting on the heads. As person, without the complete elementaries nor the quantification of them in times in well understood. Data (1995) and Data and Data yearly (1995) described these forces in detail.

Data control those was those that years of different integers and finish movies.

Education States on National Section States States

Conversions review, or in event task, cours assures assured as event to a securities. There administrates event are selected. The first is device the outmakers above above as the holious resulting from the meltione deslines notice was fairns. The near sental was higher and of this devices then be invested for the sentiment mans. The intend-contributors fairns is that deals to be advantage whether is other mans. L24 Paneosters Affective Profile Englisher



## 1141 Was bridge

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Poport 1-6 Computation fund in revisions under different were begin (then for Know and Lance, 1913)

## 17 e2 and beaut

According to the Int time second of Charle (1992), if the life lines of a suspended said particle is less than that the wave prival, the sind gaves should move continue Administrating, if the full later in greater than Intiffer wave persol, the road particle was showeved and for more charmles is already convent and that the remap levels slape, a major final for showing proof levels. Tages 1-7 shows different profit clarifuguress and of different veroy person. In the host, year near were the restre, and the subsection were beginn we already to be 10 to 10



Figure 1-7. Comparison of profile evolution under different wave periods (Deta from Name and Leaves, 1953)

### 1.3.4.4 Regular sed irrogular even

Entitle vives type-slig been so can send vivel protein of the head possible an intendmental. View will be send a revery energy publicage have been publicated energy disripation some them. Thus, the set seem there to import one inhelitation is required to be set on them to be received every coming a new gradual inhelitation. In a required to be a received and the send of the common and inhelitation. If present it is well as a final to protein protein the company time of them some in UPEXLYMO, Quitar and Great 2014 when considerationals and another security. The Contractive of the consideration of the contractive contractive and and present the consideration of the contractive contractive and the contractive of the contractive contractive contractive. The contractive contractive contractive contractive contractive contractive contractive and the contractive consistentials were was used, with a worst height the name at the arguiditate were height of the random wises and a stree proud the same as the yeak, quested presid. The shape of the her shootly changed a blee 4 was required to associatements worse. Do not surround consistentially as a presented though developed.



Figure 14. Par Se Changes and a modern and monodrominia mores for cose \$5.48 to



FURTHER TANK CE ... # \$ 20, T. - 3 of

## L3 Digostive and Suspend Study

A gradual, changing injustices in even trained in entertainment assessment receptors artifacing, differ any new haven consolial which also the decommended by profice subqueley for that as color for incombining and the confidence for presenced propriets the mass degisters of first arrange in a province of a section and order or presence of a solitorist compared and confidence and develope a presenced consider for presence of de-backpacities ophishous process and deciments on some solitor or province and contrained to the solitorist of the confidence of the contrained and confidence and confidence of the confidence of the contrained and confidence or confidence of the confidenc

Chapter 2 paradas a datased framewomeness on the subject, which recludor province valuelies findings as labourery experiments, and some sembjectal and extremos month devertised extremosity.

Open 3 for some of the source of the source

Chapter 7 protects the contents and conditioners from the study and proposes some montaneously less thank model development. The purpose code in FORTEANIC or and code or the contents before processes to the content.

## OBAPTER 2 LITERATURE REVIEW

#### 111 American Sta

Dies to the complexity of frames; and basis design processes an enters, shows communion sorbit controlled confidence are uses a powerful tool. Many informacy moves to reading him been confined design pur designs, including sandinacio and happ-actic vers fitness experiments. These experiments provide standard estimation or to the confidence of the c

Easier (1944) consistent laboratory expresseries of equilibrium least profile observations. To expand this the wave stagents and the new of continue years such in wave length ( $M_{\rm e}/Q$ ) played as exponent yell as hands profile formation.

where CONST are compared as a transmission or energing using process as a season, and have been done that the development and development and use produced are associately advanced studies contently parted wires and varying period warve-points due reason when record and accounting period wavel, and the variable period bears remark less netted and advantaged and has appeared bed furtises flow and tought their the content, period bears.

Easses and Earwingschin (STEE) encounted the shall openess no benefit precision interserving with a plane profile. A shall openess in the power are a visual profile fact does not also have any considerable schenge frame for precision of type (Tri model Groupe) as to consider waves of executively contribute hardwards. Pages 2 of afterner complete of states point on a forward of profiles. For a series profile, there cannot a shall opened. one the hoster rane and a second sinkle post may are to it in still fairs abid operation of the modern or fine and other companies of the modern waters. In the case of a second profile, the shifted point of the most or may be a the case to be the second or other modelling postle, which sooms to some the second factors but shifted point on the interespondies seen. They found that the selection of the second factors are shall point on the interespondies seen. They found that the selection of the second factors are profitted to the second point of the second factors are the second of the second factors.



Figure 2.1. State is pointer on steem and record qualifies (Exempe and Eurotopoulos, 1972).

A) Two rights primit on a steem profile. E) Stable point as a necessiopoulos.

bends classification continuistic commit which the entail proble was plant and which ratiofeld the offices of wave coopean, within bend slope and the ratio of scale in to

when f is the small risps. For Type I poddle: C 3 4, Type 3 yaddo: 6 C C C, Type Hamble: C S X

different word of terrories (\$12 mes and \$07 mes). Each experiences began with a configura-

maked single of 1 MO or 1020 and not unablaced utake different work conditions for an hour. They confirmed the beauty profile classifications corbinate of disconnects and Mortisons (ISSN) and related the net orderest incorpor swins in the 20 miles parameter.

where  $\Phi = \sqrt{\frac{I_{pol}}{p_0^2}}$  is the decreasant in temperature,  $\omega$  the full value by, d the given discoure,  $\Psi = \frac{I_{pol}}{p_0^2 - 10d^2}$  in the Edwidt parameter and  $\Psi_{pol}$  in the edwidt value for the variation formula continuous experiments.

ter I



Figure 2.3 Exhibition between oil tempers rise and Straigh younge or (Wassales et ...) 1990.

based on short large were fluence data. They also proposed a model of change by macrosing that the coloi on-officers transport not Quouble

where Q<sub>i</sub> is not confirm transport search the nucl since respecting perfectively of the far continue solar varies, Q<sub>i</sub> is not oblinear transport conduction and trans exempt by hosenormyled verwell-depend currents, and Q<sub>i</sub> is no confirm transport in the results some cascol by wars sowing. The three components were each customed to be Chaussia



Power 3.4 Toron of not immunit not distributions (Exists et al., 1987)

Substitute and Minoquate (1997) and large wave those experimental date to examine ending beach classifications. They found the tor edgewer develops and  $\beta$  to

 $Y'K \simeq 10$  , here stone offshore, whereas stary server orations if K < 1

above to militim. The time varieties of the law cost busines, X, may represent to us

where X, and the possible server value of X. The control of the information control as one

reportment of the Coppel Rassipph Indiana of Electric Primer Indiana or James (September and Management, 1997); SEPSETANK respect on the barry water had, as the 1995, and LIP 11D Dalla Plants recommend (Scoreda and Entern 1995), no. Score of the tarts include recoder witness, whereas others exclude both recoder and creaming across

#### 2.2 Neurosicol Mediding Studios

have a result interesting nations of time, where solvent exception which have been proposed from Globella and which the overgoons from Globella Proliferation of (1) (2). Secret GMSS, and defences on all Tomor GMSS. Detail Solvagues of a solution and control solution of the solution control profile interest and control profile interesting to the different control profile. The control profile is control profile. Secret GmSS profile and the solution decided and solution from the part were from private that mode equation Secretal data solution from the solution of the sol

Dentify, wavelet anothe operation are the remote spring large of contractive to the contr

#### 2.3.1 Closed Loop No.

#### 2.2.1 | EDUNC model

One of the first ale

fix energy dissipation integri. The latest caseign is in fig. (if is individual of see a five-one for profile, is unless energy dissipation into you the observed model of the fixpatible on an equilibrium briefs. If the looks appelled defined from that equilibrium files, the dissipation issue accord from of more wald define from the application white. Due were where whether support out is only usual and calling the fixed from the condition of the contract of the contract of the contract from the contract force whether the defined on the contract of the defined on the contract of t

where K is a known state present where decrease polarization has for the soft or the LRT day of Sorter and her fluorises flower profile day  $Q_{\rm L}$  (and 1956), resulting as a sole of 8.75 eV<sup>2</sup> of <sup>1</sup>N. Using dislown water were thosy and maximum questing bridges. It was determined as

$$D = \frac{1}{14} \rho g^{-1} p^2 h^{-1} \frac{dl}{dr}$$
 (2.8)

where  $\gamma=0.76$  with fresher solve,  $\phi$  as density of the water and  $\chi$  is givenly. To obtain some dependent profile evolution, an amplicit studied every method was copleted to

$$\frac{dy}{dt} = \frac{\partial Q}{\partial t}$$
(2.18)

Roll Q and y to defined at protects in the obliques devation and in a protect below the milk water band. Offshore, indicates assuped was assumed to be efficiently behind at the brails print of the occording water. Later developments assumed to the efficient of water new up, does properties, and date involved to the anniver beamelay suggest (direct). 1990j . Figure 3.0 and 3.6 show examples of applications of the model for bank and field that, respectively



PERMIT OF CHISCOSO OF ELECTRIC BOOKS FUNES WITH SAFE HAVE BASE AND BY SEASON.

(Except., 1780)



Figure 2-6. Comparison of EEE/NS would enable with a field profile affected by Nameuro Elena (Coded, 1964)

331 2 SEE sCB model

Therefore colorated data look large were took data (mostly from Stem and Lazon, 1951 and Spirms and, 1962, Lazone (1951) and Lazone Albert Stem (1951) and Spirms (and, 1962, Lazone and Stem (1962) and stated SEE-CoV by reducing some data from and taxoport, distance, and an ask anything of the southern some from colorage as the solar anything of the southern southern and there colorage as the look profile was unusual to the perhand by broking waves; therefore, the copyrights

Except the was command their the look ways, water level, and beach grad

properies and the assertation equation of seed in the uses above denotion was sell in compute profile sharpes as a function of time

The model indulest event models to destrict a wave bught and other workhelder properties or any depoints on a profile like. The wene bught was decreased byhence every deeps or regions of methy-roked by summang bodyly yellow and pushed depth contents not using the Body. Ones not Dollyropke (1945)-model on the work now. Based not the wave discipation model and Dody stud, we apublishes a profile (5):2.1 (1) and

where in the eline steps, the A-value is different from the A-value and in time and epithenium profile operation that to the wildfored Leave steps dependence.

The distribution of transport rate mass the assertions were was extended over different philosophyse in four decrease page (Figure 2-1)

Zone I Pre-honsiony ones, extending affiliant from the branking point.
 The rediment except case was expensed as

$$Q = Q_{ij} \cdot \exp\{-i(x^{ij} - y_{ij})\}$$
 (2.12)  
where  $Q_{ij}$  is the reference transport at the brank point,  $y_{ij}$  is the brank panel brancon,  $X_{ij}$   
is the second determinant coverable.

 $\lambda_i = \begin{bmatrix} 0.01 & \text{For Assertionery Conditions} \\ 0.01 & 0.01 & \text{For Extense Conditions} \end{bmatrix}$ 

where  $d_{ij}$  is the model in grain state in state,  $H_{ij}$  in the breaking wave barget as  $\omega_{ij}$  and the

Zone II: Transition count, them the bends prost to the plungs y

where  $Q_{th}$  is the transport case at the phases point located at  $p_{th}$ , the shorty coefficient  $\lambda_d$  is approximately 0.28 0.29 of the value of  $\lambda_d$ 

 Ziou El Shrikon name inste, there the planes paint to the servered lettel of served, secon.

The subscent transport rate was delegational by

$$Q = \begin{bmatrix} R(D-D) + \frac{e}{K} \frac{\partial h}{\partial x} \\ 0 \end{bmatrix} \qquad \begin{array}{c} h + h - \frac{e}{K} \frac{\partial h}{\partial x} \\ 0 \end{array}$$

Zonc IV Smith than the several must also be to be remapted.

The bounded exercises that it forms because of a filter a decision.

$$Q \circ Q_{t_0} \frac{J - J_{t_0}}{J_{t_0} - J_{t_0}}$$
 (2.15)

where the militaripus WE and EU denote hand-seed and at earl some and non-up figure, responsively. Sig 2.11 resoluted in a plane slope above the absorbane. The descripts of EMMOND with as All Day spores was determined according to Exp. 2.10.

$$\frac{N_1}{L_1} \sim 0.0000 (\frac{M_2}{\sqrt{2}})^2$$
 Offshort immport

$$\frac{K_1}{1} \ge 0.0000 \frac{K_2}{100} f^2$$
 On these transport

in term  $H_1$  and  $L_2$  are the deep water trans length and length respectively, was to entire and  $H_2$  and are the  $H_3$  and  $H_4$  are the  $H_4$  and  $H_4$  and  $H_4$  are the  $H_4$  and  $H_4$  and  $H_4$  are the  $H_4$  are the  $H_4$  and  $H_4$  are the  $H_4$  are the  $H_4$  and  $H_4$  are the  $H_4$  are th



Level Make et al. (1996) modular) the modul to consciou population analysis

chaiges solid resident several. A lated shapfur revisions waverweated broad on Budy and (2004) model was distributed to prefer the news broady, the frames of the form, without and administ waver, and the variety and options revise above. The fix compilal stamped requisions were restributed for agreemate trapped or their before and administration wavers. An exhaption for date entires produced by exercised was about Jonnépoul in that wereast. Seen Jonnes of Energ 1990/product final before solidors and does not decreased Justice Conference of Energ 1990/product final before solidors and decreased Justice Conference of Energy 1990/product final before solid to the contract Justice Conference of Energy 1990/product final before solid to the contract Justice Conference of Energy 1990/product final before solid to the contract Justice Conference of Energy 1990/product final before solid to the contract Justice Conference of Energy 1990/product final before solid to the contract Justice Conference of Energy 1990/product final before solid to the contract Justice Conference of Energy 1990/product final before solid to the contract Justice Conference of Energy 1990/product final before solid to the contract Justice Conference of Energy 1990/product final before solid to the conference of the contract Justice Conference of Energy 1990/product final before solid to the conference of the contract Justice Conference of Energy 1990/product final before solid to the conference of the conference of

Zhing (1966) and Zhing and Dess (1997) developed a zero-litture organistics model (CSCNN), which was a model leadon of the EDUNE model and based on pade models.

From Eq 2 K, the stating effective dup in Eq 2 17 can be established

stood, according to the definition of D (Eq. 1.9), the disryablescen scale rate out to expressed a terms of the length scale rate,  $J_{\rm cr}$  as

On the other hand, the Proade relationships while the one work ratio, T. or

From the referending presented, the cross-slow unknown theorem,  $\mathcal{Q}_{\rm c}$  should be solded

$$Q_{i} = \frac{|Q_{i}|}{|Q_{i}|} = d_{i} |V| \qquad (2.3)$$

IFX or contribut to be a sources, the scaling units of the Kriefed and Dawn bereating our his shape to be

$$Q_i = L_i^{(i)}$$
 (2.20)

which does not provide a valid scaling of the transport units  $\boldsymbol{K}$  were a velocity

Set (D-1/2)-10. (C.22)

$$Q_1 = K_1(p - p_1)(p - p_2)^2 - K_1 E^{-1}$$

c.—) were determined by assuming it, independent of the length wode and reped purposes to the high their policy colors and convergence to the aquidorous profile are secreted. They reped that the substanting-pool provide a measurable equipments the

the algorificately different cape codes of boach evolution endoes as various laboratory

The seal divinedary understance seek has deliverable great to two prices. To consense mentalized single-si



Fight 1 in Detection of their, counties and relative stops (Direct, 1994)

CDDIS provide made below approved for some experiences, as excepting of

stable is direct to Prove 2-1, wheth provide a comparison with the data or gas Grasse,

large value force represented from Date and Vibrato (1997). The common from Date

or new two-part in househig may reposed profile convery bette that proved histories replayed. This is consisted with the slower transport account.



Figure 2-0. Comparison of latest (e-1) and analysis (e-1) throupod ratio with measure data in German large wirer Basse (Dienz. 1996).

#### 2.2 L4 Kabuyudi wold

Eulografe (TRT) regarded a two-parameter solkment immoost con squarios sa

$$Q = D(h) \frac{dh}{dr} - K \cdot 0 + h \pm k,$$
 (2.5c)

ert. Don'd K. w. coppinal Eastern and robert to the wave condition and sedants: materials made the self-size. The reggered form of D and K. by Kobrosch (1947)

Let et al (1996) une del fonciolaria and developed a cuenciond model to worded en come obserpredie en distant unit, accomp bouséaux. Frades, Leu et al. (1999) referred des recolars et autit, dessan hybrid assistant ander laubeing the premiero, and recolars et a matte dessan hybrid assistant ander laubeing the premiero, and recolars et force and the dessan and a second of the SERACH model for larger and Error 1980; the companion dessan as challenge for the SERACH model for larger and Error 1980; the companion dessan as challenge for the service and and the larger and Error 1980; the companion dessan as challenge for the service and produce of the service and the service reblacesine, achiebusy poin-brasking zwise, herebusy zone and pre-brasking zwise. In a segmen, different endersials throughout man equational wave world.

orte was blanches your

$$Q_i = D_{i_1}^{(0)} - K_i - 400 < v < s_i 0$$
 (2.3)

$$\partial = \pi \sqrt{k_i}$$
,  $\mathcal{L} = \frac{2}{3} \omega d^{-1}$  (2.2)

where  $k_p$  and  $k_p$  are the water depth and distance first the unique to the year probe,  $K_p$  is the distance from the arrays to the posed  $(x_p, y) = 0$ . In the headeng over and pro-

has like the colored histories were exceed to have for  $\delta d$  every explicit expensions.

$$\Omega_{i} = c_{i} \delta A \cos (-A_{i} (\tau - \alpha_{i} \Gamma)_{i}, \tau_{i} \leq r \leq s_{i} \tag{2.26} \label{eq:2.26}$$

$$\Omega_i = g_i \Omega \log (-\lambda_i (x - x_i)), \ x_i \le i \le m$$
 (2.29)

normy (v. not (g), vine to surprise an expense and expense to the expense of the

The emprised formula for J<sub>1</sub> to the stocks was

This could test formed by the authorators of momental solutions (see I trade into 1) and omerically bread authorities three diseases (see all per brothers or Eq. The model can simplifications) by controlled in make the problems by represented by white present authorities. The problems in the problems of the problems



Pigers 3-10. Despite on of the intergod net added at basepost new computed from the migli-fee and math-fee numerical models with CR Case 300 expressed data what 5 beam (currant profile had be should (Lee et al., 1501)



Prover 3-11 Comparison of the might be and multi-har natural results with ESEACH and CE Care 400 data after 48 boson (Lea et al., 2009)

Two analyses or seen unsigned deserting sorticitative hour accumumed in the laterature. Kniferow's (1947)-sortelized for concentrate optimise and the transport debtooder to the 2-th min are necessary communities for a notific insurance. where I and K are defined in Eq. 23. The instruct of an error follows of a former and a finance of a channel and stated or instruction for anticipal beautiful and all the entiring dense for any premiotive ment of production for a contract of the anticipal dense in the anticipal dense for a primation ment for graduation. As well dense for a contract of the anticipal dense in the anticipa

Exerted et al. (1994) and Konfed and Data (1990) investigant and Charanted a consolution model of impraemage leads profile variation. The method in house on the observation flow sourceast solutions that for a seminate forming finishing, i.e., usage levels, is presented contemp. (§) 5 miles to approach the applification value y<sub>10</sub> appropriatedly

we which  $T_p$  is the observance case undeal discrepanced surplane. The solutions is obtained in the form of a convolution integral of the response features and the water level  $T_p$  in the form of a convolution integral of the response features and the water level  $T_p$  in the form of  $T_p$  in the fo

that was found to you'll now similar roughs to those retained formed common

## 221 Days Law, Madein

Open loop merhal assembly adult come above referred between in the detailed physical the firm fails has a solutional open extension, Ond velocing, and bettern show missa, will force of these resides will be reviewed briefly been. 2.2.2.1 between Open model.

The Delity and Dean model (Delity, 1960) Childy and Dean, 1960) was based on ser

concessions at level C

The five regions are disculted as a signer layer whose and possess flow was considered and its first layer whose layer large and each of reading resemblers and account. This contribute hereave layers was alreaded by the discussion of which for account and account of the contribute and the contribute and the composed. Does were those you want and account for which the contributions are not supported. Does were those you want of support made for which the contributions are not deep via laws appelled to which we went when the form which the possibility have appelled to which we went when the form which the discuss flows when known was known and we will be a five as well and the contribution of the contribution and the contribution of the contribution of the contribution of the contribution and the contribution of the contri

The responsive contraction was considered as the sequence of a green of the sequence of the se

$$C(\alpha) = C_{\alpha} \exp \left[ \frac{-19 \alpha (x-x_{\alpha})}{8 A \pi (\alpha)} \right] \qquad (3.27)$$

where  $C_{\rho}$  is the encontrastic at all many solutions absolute,  $x_{\rho}$  . The subsect the

wive of the profile. The short valued was surround to be the sum of the short

The cretically regarded was then solved in an explicit flaste difference scheme. Showever, to prevent naturated instability just excited for each more approach receptor, spranding two applied. The product produces both second on the prediction of the product of the product

Based (1996) the promote for norm show temperature in the late integral of the public of members and vivolety over taxe and digit. The selfance consultation was found down as orienteed out, to contribute generature with the appearance of the late of the selfance of the shaded in the late of the selfance of the shaded in the late of the selfance of the shaded in the late of the selfance of the shaded in the late of the selfance of the shaded in the late of the selfance of the selfance of the shaded in the late of the selfance of the shaded in the late of the selfance of the shaded in the shaded in

programmers were a construct and course burdled at the second makes become



Figure 3-12 Economic subject is ofference observations of the Delity and Decu, modi (Delity and Decu, 1997)

# 1177 Notes and Southern world

A second widely used recognit coloration, in upon losp coulds in local as the emergical operated highlights have be foundly. The analysis appears in a solitoner because of the entire o

The Noire and Everlopes model (Soutigate and Noire, 1993, Noire and Soutigate 1993) is no encapturatelyse. An expended various of Robins's Servicinity Serve (1990) was adopted.

$$Q = |H_1| \frac{d_2}{\tan \theta} \left\{ c(\hat{q}^T \hat{q}^T) + \frac{1}{2} \ln \hat{q}^T - \frac{\tan \theta}{\tan \theta} c(\hat{q}^T) \right\}$$
  
 $+ |H_1| \frac{d_2}{d_1} \left\{ c(\hat{q}^T \hat{q}^T) + \sin \hat{q}^T - \frac{\sin \theta}{\tan \theta} c(\hat{q}^T) \right\}$ 
(2.30)

where  $x_i$  and  $x_i$  as the bit and unequated lead effectively printers,  $x_j$  is a flag coefficient of the bits, y is the external regist of finition or the inflames, m, y' is the horizon dept. m, x', m, y' is the third printer indicated in the solution or sharp, some horizon presents, and one to reconstructively and m, y' is the solution of the solution depth of the solution of the printers of the solution of the The model couloided a special involves of the wire transition to re. The transition over length,  $\xi_i$ , was calculated by a "length mobile"

where  $\xi = \frac{p_0}{(H_0/L_0)^{1/2}}$  and  $\sigma_{in}, L_0, H_0$  are respectively the hed slope, wave length and

After the investment more length was given, an expression for the diacross of various,

Or make horselver reduced inflational research was determined as

while Q<sub>i</sub> is the lattice of teach residency or the next one proposable by a reset imministration model, you the removables received in. In the Nation and Sentaligue model, the other problems review than distincted. The model has been compared with both small voice and prototype laboratory data, and the role and type ignormers of prototype that immigrate prototype laboratory data, and the role and type ignormers of prototype laboratory data, and the role and type ignormers of prototype laboratory data, and the role and type ignormers described for immigrated of prototype laboratory data, and the role and immigrate results for the recombiners.

$$Q = \frac{1}{2} d x^2 x^{-\alpha \beta} \left[ \frac{d x}{d y} - \left[ \gamma \frac{d y}{\lambda} \right] + \left[ \gamma \frac{d y}{\lambda} \right]^2 \right]$$
 (2.44)

whose C. I., and I., and Son procession in the solution of , So the forcit wave length. The first term in proceedings in a time attaining basis, and the lense on beauth from it, well-forcities discover oppositioning the solutions of all consideral tempore, residence tempore dies on words were included using the grown asseptioned, and withher tempore dies to reverse memberoom to Lie. advisorable.

## \*\*13.3 Wateraltz model

With table (1981) present a submed interpret site repaids related as local wave-ranger conditions and hadron short attent. The field compact and was the rate of contributions from more natures, Q<sub>1</sub>, and waves, Q<sub>2</sub>, which are expressed, responsively,

Q-45/r-1/c/m (14)

where  $d_i$  and  $d_m$  are two-fractacoid auditions, if the surest velocity value,  $u_m$  the innerwes new bottom official relation product,  $F_{ij}$  is discuss flocilities for white-valued and interpret,  $v_i$  the innerwest bottom of the report,  $v_i$  the innerwest bottom of the results in a scalar consent assuming system,

This is faithful as hand in the wee power county and assert that the indownship of a motion fact that so shall could be a see to supported by high come career and so not obtained as a supported by high come career and so not obtained as a support of by high come career and so not obtained as a support of by the county of the county of

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More on the part of charge and the colds and design depth and the part of charge and the cold and the cold and the part of charge and the cold and t



BELLCHESE, and CCSC with compresses to manufact employ (Ver Egy el., 2003)



Pigers 2-14. Comprised significant wiret Berglin. Engiginar cursus: releasing, cross school entered Microsom and post orbital reduceds: by UNERSEE ICT, COSMOD, CREGIONOSION DEACHS (OC, and CERC with companions in resource transfer (Ver Edice Id., 2006).

# 3.7 Swannery

It was representations not five proposed or quit sing barriors. José access of energy politics who promoted by most in the specificity could be lowery, again, was maked do set emergencies a record holding translation data with assess republicament which do set emergencies a record holding translation data will assess republicament which reagan of conditions. Thus, it is not barrior whiches we not been exorible nor before the control of the control of

for Earl Earling renderings. Their decod lang-models provide lancal assistant and environment rendering from spellings on typicated angusting speakhast. Those models are relatively complet and decor require decoded accordings on the Systems and redemon through protection as in aport-long-models. They are all have less expellings and produce according to the properties of their demonstration of produces an experiment of their decoders of their demonstration of produces a state of the speakhast and a state of their demonstrations.

Beard is an own house with water for which per which (1) [1] and per count of delines. Each in the designation of the delines and the delines are reduced and the delines and the delines are produced and the delines and the delines are produced and the delines are produced and the delines and the delines are produced as a per delines are delines and the delines are produced as perfect and the delines are delines are delines de

and indution throacewhos indices arthrose conquer, for company discouse product by the model is continue. (C) The equithrous profile send in those models depends only or inflorest and through the profile soled focus, visit is count explain the seasonal profile depends unknown in attache. (C) The wives assertly designated is IECNAL and CECNA in a send on the log tilling bridge aroung plant and their causer product to be profiled.

SERVAL shapes a new relative two made in present her, but shale with the transision on an employed bear. Of The incorporal is the result own, during excession of a formed of severals or enter not included or not well decorable on present addition. Another fermions on the emoporal and profile changes under modern worse. To the seaffort's how-indigs, a representative series highly based print out opportunesses were large

Assert removals in the temporal and plantic causign scale accesses water. To the state of a love being a representative wave bugin justicity and equations were being or digardinate wave lengthy a used in these months accept CROSS to develop medice, waves.

This antiferation of this study is to address the installate present as contain pool.

and dending a some physically which cross obers public thange could to better represention room-show melatered interpret prevenue leader the suit Sous (such as her lineauce, profile obseque welter coulous warve, sur.) which can be used as youthful field applications.

# CROSS SECRE PROPER EVOLUTION MODEL DEVELOPMENT. The degrapment of sometime profit evolution and developed or

The company passess in a close-flow problem-values a model developed in companion with flat influencess. The proposed would extend to present extend large models reviewed as Chapter 2 and incompensations for findings to expose the model republicly in the form represent network resolutions. The following states for questions to be abbreved in the office:

- What is the best approximate of sederate transport rate as:
   Q = K(D = 0, i)0 = 0, i)<sup>2</sup>
   o = 1 (or is EEX.NK, SBRACE) or n = 1 (or is CRUSS) or other values.
- Defined broking worst oprinsy plaquegi designas designas designas, et forget ways that come officials during planes and a flower subsens sursport. Here death their afficials is equivaried in large mode extrement enoteb?
- What is the lost representation of the lost rape profile presention mechanism? One presenting and reading agreement is to log (in the health and develop) the most energy dissipation for any values D.
   What is the healt representation of different time scales of health profile emission.
- edited to most bugge set was responsed.

In the chapter, the was transferred on models are sendented and in American the trans coming disreption state in the region and makes review. Then in the early in consequence of restrict a delivered region and profile forms. A new expected interiority based on large-scale accessment allows from presented to interiorize the wave offers on the profile saids parameter on the equilibrium/tensity profile. Firstly, the

# 3 J Ware Emergy Transferentian Models

Eurofern waren (geschijt breisk samme einsch weiter preinen wif die besoch preille freis mondelenselle weren weit die zone erweige energe, producegt einem werste durch mod enweitene ezerge dauspienen. These they should be model diellensty's in der

## 111 Mars Breiter Tree

Free deliment byen of Freeding were her has related in easily office, freeding house, house and otherwise is because (with the freeding that free was collection of my few ships with wors of Trephinospress whose plenging herdran are associated with proper herdran and were not emerginess programs, surging power are high my produce broken with own of ferm programs, the official product produce however the product produce of the management, and officially register to emission however the principal coll surging. Cultiva (1960) faund fairly good frinking register.

$$\ell_{i} = \frac{m}{(M_{i} \cdot N_{i})}$$
(12)

where is in the heads plays, M<sub>a</sub> and L<sub>a</sub> are the degreenter were builder and were shaped, responsively. Deeper O'N 1900, All Lands and Summers (1991), and Small and Kinne (1994) recommend on the process on the human or a least depth different annuals of types. Table 5 1 reservations the formater over a land disorder from different processor.

Descri	G899 (1966)	Station 1979	Standard State	Rena (1991)
Spiling		6165	6105	6414
Pleaping	P46 < £ < 3.3	4.5 < 2 < 3.3	85 = 6 = 25	95-6-13

Defines having up dany a different access mode that carf most. Ownly are gradient-behavior, severe hand by remodably up of lesses block prompting up delines block manages, with the convenience of lesses that is less of lesses geographics access the convenience of lesses that man has been freezing descriptions access from the convenience of lesses that the lesses and less than the lesses and less than the lesses and less than the lesses that the lesses and less than the lesses that the less that the lesses that the lesses

Note that the contract of the

These mession show that the see't weaking preventy above assume give a close and assess a hand feature of public layers of though the could no covers in 18 of \$15 cases, whereas the field window parameter incrementary memority and \$15 cases. That data the field was the field of the contract of the con



Figure 3-1 Seef similarity parameter and full velocity parameter versus beautiful sections between

#### 3.1.2 Wave Transformation Models

# 11.1.1 Meandownski was transferantise mobile

dight two works the set some pricing fraction around a make make  $\alpha_{ij}$  is the set of the first and some fraction around the set of applicable on one constant a finite profiles much as does no making the freque fraction. The first one constant  $\alpha_{ij}$  is the first one constant of  $\alpha_{ij}$  is the first one constant of  $\alpha_{ij}$  is  $\alpha_{ij}$  in  $\alpha_{ij}$  in  $\alpha_{ij}$ . The first one  $\alpha_{ij}$  is  $\alpha_{ij}$  is  $\alpha_{ij}$  in  $\alpha_{ij}$ 

One preprint alregit were model in the confusion on Delty, Dean and Bullycopius model (Delty or d.), 1964-1960. Excepting it will be related as D<sup>2</sup> model. Other even models not to these hands to the business; quantum as very time-revensing and not a great drawn for every large secretary and confusion. The previous quantum of the Delty model on present all (1,5 mod appendix as Eq. 2.3).

$$\frac{BK_g}{\hbar r} = \frac{K}{\hbar} \left[ BC_g - E_g C_g \right] \qquad (9.3)$$

where  $EC_p$  is easily than,  $E_pC_p$  is the energy this interested with the fields ware that the bendung wave is storing to storing to storing what display, and  $E_p$  is a disseminate when profit with  $E_p$  to enswering  $E_p$  of the field with the field with  $E_p$  and  $E_p$  is a field with  $E_p$  and  $E_p$  is a field with  $E_p$  and  $E_p$  is a field with  $E_p$  in  $E_p$  is a field with  $E_p$  in  $E_p$  in E

Di .

when I is a second on section of the "of 12 inspiration and harmony can be a few of 200 inspiration of "one of 12 inspirations and part of 2000, partial register of 12 inspiration and partial register of 2000, partial register of 12 inspiration and partial register. The partial register of 12 inspiration and 1

There exist reveral profess were sould, which can be classified use two gauges one poor stone, a representative work hought with a wave begind distribution assumption mode the one's seek, the other proop using a wave-by-wave approach.

31.33 Employ wire models



Figure 1.3. Companion of D<sup>2</sup> model and I 0.78° companies laboratory data for 1.05. 1.78. 1.45° and 1.60° beach slope. "Exact of (N\*14") scenarios with increasing beach slope and minimizer acceptant condition (Sciencians with increasing CRAP of 16, 1959).



Figure 3-5 Test of D<sup>3</sup> model of probably a sale on large were body profile (2) = 1 (6) y = 2 (2) (5) When brooks referent shoots and brooks proportionly at (2)

Bings and James (SNI) first developed a twen energy dampeter model for cooless weres. The words distributed on each the ord-sam was assumed to be a brainful distributed to be a brainful distributed. The orienter wave energy the policy was assumed to be a brain of the fairney and several world in.

where the the removal were compact and supplies ( $k_{\rm p}$ , as the assumption blooking waters,  $k_{\rm pp}$ , in the states was require were length,  $k_{\rm pp}$ , as transitional possible reserve length of weak which  $k_{\rm pp}$  is the consecution of length  $k_{\rm pp}$  in the length of the states of the other CR figure and Dissourch but with difference were related desirables on temperon. Dissource and Good 19854, Chaille with difference were related should be desirable on the produce and Good 19854 and with difference were related to the first temperon. The content of USEA, the look of all 1985, the horself related to the content of USEA and the conte

bette free-entremed models, s assert stands were specialists and a fine of the very highly distribution under the sold case was assumed. However, instance, the man opportunate out always course should not do were hough distribution in very require, opposition and always course should not do were usual distribution in vite models, opposition and the sold case. In a standard to assume this problem in the sense by were approximately form and a tregalar 1950, Cody and Done, 1956, Sully 1950, Sucreas por Kerna 1950, Dane, 1956. Kongumen and Abdendoms, 2000.

In the worse by wave marked, the sention wave field in opposition of a cut of advisorial supplies worse. The stopes assumption observed in that

reports in the distribution and heading we never affected by were never assumement. As my leading, the probability statistissis in we are height and the distribution before the probability and the adventured waters, and were instances seed to instructionary probability of mostly reductions. The waveley were opposed has been sended with following and 66th data for the control of probability and of 66th data for 10th, 10th,

Extent (1995) developed in informative makes were accided that aspected transformation of only not exponentiative were height without making any assumptions obset the pall of wive height. Lastice (1995) showed discide model another were an assumption aspected with the received programments.

The week-bown or agreed in believed to the even mind he select grocesses on its even price of the select grocesses of the even price of the select grocesses of the even price of the even price

$$p(\theta, \tau) = L(\tau) - \frac{2}{J_{Tot}} \cdot \frac{\theta'}{\tau} \cdot \exp(-\theta' \left[1 + (1 - \frac{1}{\tau})^2 \cdot \frac{1}{\tau^2}\right])$$
 (14)

about P and V are account and area bound and account

$$R = \frac{N}{2\sqrt{2m_{\perp}}}, \qquad \tau = T \frac{m_{\perp}}{2m_{\perp}} \eqno(3.7)$$

s, decades the left measure of the specied desaity. In side band world previously

$$\label{eq:definition} \begin{split} & w = \left(\frac{m_0 m_0}{m_0^2 - 1}\right)^{2/3} \\ & d_0 t = \left(\frac{1}{2}\left(1 + \frac{1}{\sqrt{1 + \nu^2}}\right)\right)^2 \end{split}$$

The marginal perhability density of wave-beight. A road-be-densitioned as:

$$p(E) = \frac{1}{2} p(E, t) dt = E(t) \frac{1}{2} + op(E) \cdot \frac{1}{2} E \cdot op(-E^{2})$$

where  $\exp(f_i(v) + \frac{2}{i\sigma^2}\int_{0}^{v} |\exp(-v')dv|$  is the error function. If v = 0, Eq.(3.10) is the



deviding Eq.(217) by Eq.(2.110). Integrating with emproved in a well approximating the new function or (0.0) with track (2.20), the contribution probability of wave proved in green by [1, p.or. 173]

$$P(r/d) = \frac{1 + \min \left[ \frac{1.28}{r} \left(1 - \frac{3}{r} \right) \right]}{1 + \min \left[ 1.34 \right]}$$
 (3.12)

To remailed a modern were condition, a cardient cumber P, senderedy distributed forework and 3 or governor distributed some bargits, Pe, so obtained store Eq.(5.13)

$$R_i = \sqrt{-\ln(1-P_i)}$$
 (3.13)

Tack a second record microst Fy in grammon, can be continuously with person, 7, 1 exhabited from Eq.(5.12)

$$1 - \left[1 - \frac{v}{2.44} \ln \left[\frac{P_0^2 \left[1 + \min \frac{1.24}{v}\right]}{2 - P_0^2 \left[1 + \min \frac{1.24}{v}\right]}\right]^{-1}\right]$$
 (3.14)

The dimensional wave height and wave proof was freshe determined from Eq. (2.7). Zineq (1995) respected the maximum laterals in which belowed (x = 0.7) proof county distribution for both maximum (x = 0.7) tends and such dark (x = 0.7) proofs, and found many good agreement, in the lateral Eq. (2.9).

### i Follier Medi

When some breds, it has been front that the view energy despense does not excer extendingly in the attind besiding your line of some distance bestward at the

This repose is known in the annual request, which is characteristic typed were design clusteristic and annual request which is characteristic typed were design confirm wave abstract, thus industring that their in data it light on committee to this phenomenon as observed or body planging and spilling brackers. In wavey

Then, the recibility of the investible area on a profile model has se appointed office on the profile of profiles, protectively one for her fraction (Notice et al., 1990; Southputs and Note: 1997).



Figure 3-5: Comprehens of the extraction transits with the descript function Eq. 2.25 of Companies (Dancy, 1990). A) National hand (v = 0.7) more symbol. (i) While hand (v = 0.3) more symbol.

Newsyk the swelere soller could (Svendors, 1994, Dully and Stance, 1994, Eastern a Batter, 1997). The bases also of the coller model in the the recovered water account arisand of shading of that is administed to the samp of it is thin, which their on the two fines with the place upon of the event. The difference is which places the salts and does valve precision in the rear from a term is their arises before the field and unforting a very final. The varie dreet is some in their articles and the distribution of the administration of the sample of their places. The term is dreet in the place of the distribution of the distribution of the distribution of their distribution. The places is distributed in the distribution of their distr

The term-marged energy halous aquation that constant contributions from half the expedited verse makins and the action, as regressed as (Name et al., 1996, thicly and

$$\frac{\theta}{\partial r}\delta C_r + \frac{\beta}{\partial r}\delta C = \epsilon,$$
 (3.18)

where  $EC_p$  and  $E_c$  are the energy litters as occupied with the organized wave survivanal the rollow, corporatively;  $E_c$  and  $x_c$  has the energy and energy changes in one of the order, respectively. Sentation (1994) expected the roll or energy per said survivan same as the sentation of the adults resonance to some  $x_c$ .

The relief energy deepween size,  $x_{\rm c}$  is modeled as the week performed by the show

Following Nates of all (1999), the observations of deduced by assembleing the vertical force behave on the soller, which leads to

that the model is assume two to volum of  $\beta \geq M'$ 

Several formulations for the rather sens. 4, have been proposed. Strendard (2004)

soleted the solder over to the local trave begin by

Despited et al. () 981) rewrited the robot was similar as not to the second region of  $\epsilon$ 

hell is the position of the maximum wave energy dissignation. In elempting in model the Bull, Oktopian et al. (1907) adopted the model

In which L in the bod were length, or and or an empossibly presented distance that depend upon position or other sold case. The pask in were emerge descriptions was decided landward by accessing at lensally from some at the handwards or an exercise motion or the colored call cold by a statutes region and that the fact in terms of the theory (convert, them solded resource serious landwards and then been also the serious and the first solded resource serious landwards and the best and the terms and the serious from solded resource serious landwards and the best and the terms and the serious from solded resource serious landwards and the serious at the terms and the serious from solded resource serious landwards and the serious at the serious at the serious from solded resource.

Dully and Durwe (1990) proposed a different approach to determine the order sens.

dentity by knowing the work brights using measured data or fines were transformation

stocks. Project 94 shows the contented order and state the station of compression with the enables of Secretary and Disputed et al. The shift between the benders of the breaks where the active bosomes fully developed as observe to the new perfect

 $\frac{dS_{AA}}{dy} + \frac{dS_{AA}}{dy} = -\rho_0(h + \theta) \frac{\partial \theta}{\partial y}.$ (3.22)

where 
$$S_{\alpha \gamma} = \frac{2}{3}E$$
,  $S_{\alpha \gamma} = 2E$ ,  $-\mu C\frac{A}{F}$  (8.39)

This equation is used to product the wave retraphet town in the model.



Figure 3-6 Rober was prediction payends and fine to Daily and Severe, 25

13 Equilibrium Search Profiles

The regulatural book profile theory developed by Dean (1975) as haved as: unables, were strange designature per soil motor volumes. Di., for a given noticed and leads the soil zone.

whose you descent of those, such as the sale water ships. Thus, defined energy discipation representations may much as defined expellences have profiles. The shallow water linear wave through a sort on this investigation.

## 2.2.1 ERF ander Sprikes Branker Accumpton

wary other station, is that the ware beight to water depth ratio should the stationer as a combat (asset) y takes as 0.70, M=pt. Substituting this definition rate  $5q \ge 5$  profits

Integrang for it, the relationship here see It and you obtain

$$A = \left(\frac{34D_c}{54\pi\sqrt{c}\,r^2}\right)^{2/2} p^{2/2} - dp^{2/2} \qquad (5.2)$$

which is the equilibrary profile from in Eq. ( ). Here for profile scale factor,  $A_i$  depends only on the great scale, and faller is will be specified in spointly were offlice:

Exerce (1907) applicable the spilling housest unsamples with the  $D^2$  model (Eq. 1.91 to chast is condition EEP from (Eq. 1.97). Equating Eq. 1.5 to Eq. 3.27 and solving for H

$$B = \left[\frac{4M^2D_s}{m_s} + \Gamma^2 V^2\right]^{1/2}$$
(3.27)

Substituting Eq.3.27 back now Eq.3.24 leads in Eq. ( EE, which can be rewrited

$$y = \frac{1}{T} \Delta \pi \left( \frac{\Gamma^2}{r^2} \left[ \frac{S(\theta, \overline{\Omega})^2}{M\Omega} \right] e^{-r_0} = \frac{2}{T} \Delta \pi \left( \frac{\Gamma^2}{r^2} \right] \frac{\Delta}{\Delta} \right]^{\frac{1}{2}}$$

This indistingly includes a boson term that removes the infinite slope in the windrate Eq. 3.26 and a reducesta coefficient  $(\Gamma^*/p^*, -1)$  that marks as a susper EP slope of the same profile node parameter,  $A_n$  when  $A_n = Eq. 1.26$ .

### 3.2 3 ERF Dates Beller Model

In the short derivative of EEPs, the energy designates lag discount at Senten.

3.1.3 more recluded. In the following, the state procedure as Lazons (1997) a application and the EEPs shape using the surface risker model of Childy and Review.

From Eq.2.18 (where  $\beta_{r}$  is small to replace tim  $\mathcal{G}$  ), equaling the radius energy

. .

the spilling broder sungapons is used to public wave of

$$\Omega_i = \frac{d' \left(1 - \rho_0 p^2 V^2 \sqrt{\rho_0^2}\right)}{2\pi^2} + \frac{d' \left(1 V^2 \Omega_i^2\right)}{2\pi^2}$$
(5.20)

electronic for h. a comba Eliki force to fix 3.76 con be obsessed

$$y = \left(\frac{5 \pi \sqrt{g} x^2}{24 d_1}\right) b^{-1} + \frac{1}{d_1} \hat{\mathbf{d}} = \left(\frac{\hat{\mathbf{a}}}{d}\right)^{-1} + \frac{1}{d_1} \hat{\mathbf{d}}. \quad (3.52)$$

part 2 f prompts the resulting SSP with comparison to Egy 2 26 and 3.26. 3 shows



Piper 3-7. Composive of SRF under different wave transformation models

wine digit title is so larger a semine. Indeed, a verse sing the profit inner the self-time. Thus, it is very difficult to obtain an embrack volume for the EDF. If the D' model in self, letting  $\gamma_{s}(y) \circ N/\lambda$ , we have

$$kD_r = \frac{K}{4} \rho_B \sqrt{g} \left( \rho_r^2 - U^2 \right) e^{-r} + \frac{D_r \cdot d\theta^2}{2 P_{rr} \cdot dr}$$
 (5.37)

withorhold oily to be

$$\frac{dk}{dy} + \beta_0 \left[ 1 + \frac{2d}{3d^{1/2}} \left[ \frac{U^2 - p_2^2}{y^2} \right] k^{1/2} \right] \qquad (3.34)$$

With allowiness of the worshopping to water depth trains could find until 2000,  $x_1, y_2, y_3, y_4$ . Nower which the profile results equalisations, the saland IEP shops can be found from Eq. 5.5 by primarized transplant. A hypothesis is except as converging of most profile slope (10.5, were beight M=10 in with 11.23 a points and ET is writer depth often profile scale factor  $A=2.7\,m^{10}$ . Demons the distribution of  $y_2(y)$  is not known in

priors, the developed cross-those profile model or applied brodited the final profile and  $y_i(y)$ . The equilibrium parties to these colorisated by robotenting  $y_i(y)$  and Eq. 3.44 and neighbor generatedly. Figure 3.5 shows the small and profiled profile in  $y_i(y)$  and Eq. 3.5 shows the small and profiled profiled in  $y_i(y)$  in Eq. 3.5 shows the small and profiled profiled profiled in  $y_i(y)$  in  $y_i(y)$  and the small profiled profiled in  $y_i(y)$  and the small profiled profiled in  $y_i(y)$  in  $y_i(y)$  and the small profiled profiled in  $y_i(y)$  in  $y_i(y)$  and the small profiled profiled in  $y_i(y)$  in  $y_i(y)$  and  $y_i(y)$  in  $y_i(y)$  in  $y_i(y)$  in  $y_i(y)$ .

It shows the produced ware height in writer depth-ratio and the profile exhaults of it.

Eq 3.34 A sum-extreme profile as rhoused.



Name 3.7 hand autombased and to be be broaden accord.



Francis 2-7 Produced 8th man and extended 800 from Ta 3.

is the shore applicant band-parific forms, the profile and classes A was assured to be only a function of other prace observer or an applicable fill reducing forms (1982) examined assurance profiles to qualify the instruments between A and the following database of the systems is used to be sufficient. Later, these (1987) reminiment

Moses's relationship of A versus diameter in A versus full sell

Table 3.3 liels the recommended A values versus the median sederated size (approaches). Size Deno and Dalympin, 2002)

A Bindford to the doors salaratily is that were resolvene are not excluded four, the representation studies of the latest planement that errors a section Bondon. the problem are of milder ellipse in the winner, errors to the minuter conduction assumed with milder and benefits were. The file velocity parameter resolution assumed with a shadow and benefits where. The file velocity parameter resolution discussed and their shadows are and were confidence from the planement and have that there results a reliainmental privation for profile seeds before A and due fail in electric that there results a reliainmental privation for profile seeds before A and due fail in electric that there exists a reliainmental privation for profile seeds before A and due fail in electric that the results a reliainmental privation for profile seeds before A and due fail in electric that the results a reliainmental privation of the seasons and the seasons are all the se where he for future is discussed from Table 33, and the assession was a small-facious to seek that he is alread in the viewing powers for the results produced for the viewing powers of the results and facions, the large marks that the configuration of the term of the configuration of the view of the configuration of the view of

The adopting procedure is in inforces and assume gas of mode of benefits or instructionation, ofference in changing and the recognition planning more processingly opposition than being the most of inforces of breakers were productions on the disch assumed profittion, does not proceed the feet of the processing of the discharge or processing of the first instruction of the contraction of the

Upon faciliti communication in the experimental date, the following are believed to be operately responsible for a single protein will derive vices (O them top in an effect the stood along on the final equilibrium proffers, the mind where region from 150 to 3.5% is 3.5%, CO stone profiles have not standard equilibrium, perivaded by these levery date, protocol or the left of Figure 3-11, because these seares all here made after deep made could vice to the left of Figure 3-11. were not be tree discussion and has the time note of profile accretion in such larger than extending larger flat accretion, Q in the first profile have rankph along and a way the complication of order prompt for in some such as CDBAC CBEFG-4, CBEFG-4, CBEFG-4, CBEFG-4 and CBEFG-4. In complex to such to Q these profiles put in the innovalentation and are for some from, with better souths than the carpinal  $P(m+1, \mathbb{Z})$   $P(m+3, \mathbb{Z})$  of some are ranged in the



Paper 3-49 Deni-Ci registerant books profits for CEHO The A value based on Table 3:



Figure 3-13 Estimated by between the full velocity personner and the case of the base for A video in the recommended A video.



Piper 3-12 Mobilited relationship between the full selecting parameter and the cone of the heal 6x A volum in the communical A volum.



Pigers 3-33. Medified ben-de against an profit for CESSE. The A value based as  $200 \log 3.2 \approx 8.006 \ m^{-3}$ 

Figure 3-1-4 shows the adminiship hand only an ide LAT profile juli commerced with an entrol slope of \$100 and most of the final profile on \$60 expensions but almost schooled equilibrium. As Figure 3.34 discious, a research of sine throston in

This squares with a notice in the model or markly the profits factor, A, as the determination of an larm wave energy designation per unit valence, D. Of special statures, assumed profits changes on the anterpretion lessing 19, 177. These velocity is consume, the A-value between length with the full reduced proposition represents profits between swaper to summer and for discussion advances account.



3.3 Cress-Shore Profile Xvolution Model

A distance in the case of Delayer (2003), we explain any public expression as Indiance of desirated and exemption of the case, on the play halfman processing the desirated interested pairs (see 15 pairs and the play halfman level country for one halfman). The company could be ECMS (ARCHA) and ECMS) require the country of the country country of ECMS (ARCHA) and ECMS) require the abstraction of the country of the ECMS (ARCHA) and ECMS) require the latest Allency the company, under the ECMS (ARCHA) and ECMS) require the latest Allency the company is set to ECMS (ARCHA) and ECMS (ARCHA) and interested to the country of the country of the country of the processing of the country of the country of the processing of the country of the country of the processing of the country of the country of the processing of the country of the country of the processing of the country of the country of the processing of t Thus, the model developed is this source, uses the same strategy with use model-coron undo based on secure and additional studyes.

In the immerse net intercepts (Eq. 5 ), see different exposunt (e) value have been seed e = 0 (CONN and SREACT), and = 0 (COSS). The exponential data from LAT (COSS) and Laton, 1946 are extended as services that independent

In the case of n = 1, Eq. 2.1 we be integrated from the shood on position y<sub>1</sub> (where the wind category is assumed to be about to accept to the wave breaking poset y<sub>1</sub> (securing the wind category discounters assumed the confirmation).

This leads to Eq.5.29, the relicionship indexes the total wave savegy-energy the rest

$$\widetilde{Q} = E \left[ \frac{\langle Q C_{\alpha} \rangle}{A} - D_{\alpha} \right] \qquad (5.20)$$

Figure 2.15 shows the mode for even CDDA, CDBB and CDBB, where it is should not be the over-red out at the faces the recovered public was weakful of the company, the mode, down discrepance or approach colorist the destination of work energy deception is between "Das, the D<sup>2</sup> and the supplied to product the work energy transferred within the end's size. Eq. 3.1 is that integrated assembledly. The restrict productions of the Dash and State CDB and the supplied to the state of t







Facus du série comprantigue 3 i agression de la herrar gressionale de l'antidostique formes Simples de mais and were energé designates. Elémente, donn si pleçari Estabelentente, no 3 à sociedent de les commentes de la historita brauleur auté de dité voisse que service modelle, autécnité présent (Dimer, 1995, Dimer, aux de la dissentie présente modelle que autécnité (Dimer, 1995, Dimer, autécnité modelle que des desempes mod étabeles par des manueurs de la disease de la commentation de la constitution d

A modeled Eig T I this instales the growty effect is used to obtain the inscipers mini work the end some

$$Q = E(D - D_i + a \frac{da}{di} | D - D_i + a \frac{da}{di} |^2)$$
(3.40)

which are a service production, the sequence (and the context) from the context of the context o

# 533 Namurical Holinting Process

### \*\*\*\*

The type of part questions of the part of instantion between the form of the two month or modes of the same and model and the same and model and the part of the



immoves med grottle credition. All Clod withly and I as the adequation remotes work dependent. It's Deld with 3 and 1 as the adequation consider, and y dependent.

The province equations in the model are fished below the occurrence extreme

$$\frac{\delta E C_{\gamma}}{\delta \gamma} = \frac{K}{\lambda + \eta} \left[ \delta C_{\gamma} - \delta C_{\gamma} \right] \qquad (3.40)$$
for small

$$E_rC = \frac{1}{2}\mu C^r \frac{\Delta_r}{T}, \ e_r = \mu_0 E_r \frac{\Delta_r}{T}$$
• Meanward equation

• Sampet model

$$Q = A \left( D - D_c + a \frac{da}{dy} \right) D_c + a \frac{da}{dy}$$
(3.45)
Continuous examines

where It recludes worse proprietations, which as calculated by sausacce

There were known of sectional arthurses modalists the "optica" and "naplica" weethers. The explore metal above the company and acciding aquations suspensibly probabilities the explore metals obsert facin two aquations annufactoristy. The presery whitestay of this upplical accident is completely an identification annufactoristic and also the cost of languagement, did the set towarpers and a fermillations. Develope, or notice to small the cost of languagement, did the set towarpers and a fermillations.

annealed hamblisher, way would have steps out by required. The english motor

allows make larger times shop in this management for without match. The employed solves in requiring it is which the prevents appointed until greater should. The force displace weathers for much models are processed below. In these approach, the sales is a ward others the transfer of a specially and passe and manages obtained, in time we thereby and staffor with management are supported to inhelition aware printing apparatus.

For the wave mobile, the reservoir orientees rises in the serviced and of the job and present embour. Were stop is included in the ward dipth as an ubbarrie, then an interior procedure in model and the wave stop obtained in motion reviews reservoir orders. Films, a specific of parties the work, by J. 20 to 5 th any softent processingly and all an endode. The difference reviews for the 1 of C. in.

$$\frac{(BC_{\mu}L_{\mu\nu} - (BC_{\mu})_{\mu}}{A\nu} = \frac{\pi}{\hbar} \left[ \frac{1}{2} g_{\mu}g_{\nu\mu} + (BC_{\mu}L_{\mu}) - (BC_{\mu}L_{\mu}) - (BC_{\mu}L_{\mu}) \right] \qquad (3.47)$$

where 
$$(\partial C_{\alpha})_i = \frac{1}{4} \rho_0 [C_{\alpha}]^i \frac{C_{\alpha} + C_{\alpha,i}}{2}$$
 (1.4)

and Ar in the space sing. From Eq.3.47, the county flux or your

$$(\delta C_{\mu} L - \frac{1}{1 + R_{\mu}} \| \delta C_{\mu} \lambda_{\mu} (1 - R_{\mu}) + R_{\mu} \| \delta C_{\mu} L \| \qquad (4.44)$$

with 
$$A_i = \frac{B_i \cdot Q_i}{2 B_i}$$
 (2.50)

$$H_1 = \left[\frac{R(RC_2)}{ppC_2}\right]^2$$
(0.3)

The difference equation for the rather model (Fig. 3-85) is exhibited to determine arther serve.

 $\frac{|BC_{a}|_{L_{1}}-(BC_{a})_{1}}{+ag(c)C^{2}|_{L_{1}}-c(c)^{2}|_{L_{1}}+a(d_{1}+d_{2})}$ 1, - 1, 1, 100

 $X_1 = X_{n-1} + \frac{1}{n} \cdot [X_{n-1} + X_{n-1}]_{n-1} + [X_{n-1} + X_{n-1}]_{n-1}$ 

$$Q^{mi} = K \left[ B_i^{mi} - \partial_i + \alpha \frac{k_i^{mi} - k_{im}^{mi}}{\hbar a} \right] D_i^{mi} - d_i + \alpha \frac{k_i^{mi} - k_{im}^{mi}}{\hbar a} \right]^{-1}$$
 (1 Mg

$$D_i^{acc} = D_i^a + \frac{\partial Q_i}{\partial a} \Delta b_i^{acc} + \frac{\partial Q_i}{\partial b} \Delta b_i^{acc}$$
 (0.80)

$$\frac{\partial S_i}{\partial t_i} = \frac{\partial S_i}{\partial t_{i-1}} = -\rho g \beta_0 \frac{A_i}{T} \frac{2}{(k_i + k_{i-1})^2}$$
(3.)

 $A^{\prime}_{i}(AAC^{\prime\prime}+B^{\prime\prime}_{i}(Q^{-1}+C^{\prime\prime}_{i}AA)^{-1}=G_{i}$ 

$$\chi' = -\alpha \chi' | D_{n}^{*} - \Omega' | + \frac{\alpha}{2} \frac{\delta^{2}}{2} \int_{\mathbb{R}^{N}} \frac{\partial U}{\partial x'} \frac{\partial$$

 $C_i^* = -\alpha K_i B_i^{\alpha} - B_i + \alpha \frac{k_i^{\alpha} - k_{i,i}^{\alpha}}{4\pi} \left[ \frac{\partial B_i}{\partial x} + \frac{\alpha}{2\pi} \right]$ 

$$G_1' = \mathbb{E} \left[ D_1'' - D_1 + \alpha \frac{h_1'' - h_{11}''}{\delta p'} \right] D_1'' - D_1 + \alpha \frac{h_1'' - h_{11}''}{\delta p'} \right]^2$$
Here was, the so-even number such as  $a = 2$ , the absolute tage or Eq. 3 of as defined

 $Q_{i}^{(r,k)} = \mathbb{E}\left[\left[E_{i}^{r} - E_{i} + e^{\frac{K_{i}^{r}}{2}} - \frac{K_{i}^{r}}{2}\right] + \left(\frac{2D_{i}}{2c_{i}} - \frac{\sigma}{2}\right) \partial E_{i}^{(r)} + \left(\frac{2D_{i}}{2c_{i}} - \frac{\sigma}{2}\right) \partial E_{i}^{(r)}\right]$  $= \left[ B_i^{\mu} - D_i + \alpha \frac{H^i - H^i_i}{\alpha_i} \right]$ 

where  $Q_{i}^{(m)} = \frac{Q_{i}^{(m)} + Q_{i}^{(m)}}{2}$ . After expanding Eq. 1.62, a similar equation with modes over the state of  $Q_{i}^{(m)} = Q_{i}^{(m)} + Q_{i}^{(m)}$ .

The discrete faces of the websited continuity reported (Eq. 5 40)

$$\frac{\Delta k^{m_1}}{dt}$$
,  $\frac{Q^{m_2}}{dt}$  =  $\frac{Q^{m_2}}{2m_1}$  =  $\frac{Q^{m_2}}{2m_2}$  =  $\frac{Q^{m_2}}{2m_2}$  =  $\frac{Q^{m_2}}{2m_2}$ 

which my be appoint a

 $A_i = \frac{\Delta r}{2 \, d \rho}, \ A_i = 1 \ \theta \ , \ C_i = -A_i, \ G_i = \frac{\Delta r}{2 \, d \rho} \left[ Q_{i,i}^{\alpha} - Q_i^{\alpha} \right]$ 

Eq.5 (1 and 3 (4 are bibliograd options and one he wither sensible stock) by the mattack dalake over perfect. The benefits problems are under data and off. The sense over data are later and beauting point (p.), where the weap me the consoling in the size. Antickly were witheren merce or into assemble of the british plant, which he is whole problems of the most broadly or the state laws point, which he is whole problems of the most broadly or the state laws point of upon (p.) in the case of it is sensel the reversals. The compare of the size to see the law beautiful to the control of the size of the control of the state of the size of the laws of the size of the problems. Section from the most delication, the size was the Available we evaluately.

$$E_i = -\frac{A_i}{R_i + C_i C_i}, E_i = \frac{G_i - C_i P_{i+1}}{R_i + C_i C_i}, E_i = -\frac{A_i}{K_i + C_i E_i}, E_i' = \frac{G_i' - C_i' P_{i+1}}{R_i' + C_i' E_i}$$
 (3.60)

with the branching conditions:  $F_a' = Q_a$  and  $E_a' = 0$ . Therefore the current transport ratios and the profile oberges are determined as

for the wave company on a function of had alone, wave bright and wave processing in the  $E = K_1 - \frac{\log \beta}{\log \beta}$ 

where It is the ware complicingly, but if is the records had dope from the surap level to

# 3.3.3.5 Lowden sentors and albitum down

The program advers the idea of CBOSS (Share, 1995) Share and Date 1997 and offers previous of maximum surhers and alliform throat Treat beningers are revenil active control to displaced servined, then arriving a lensity stony object. As much TITLE DISK for consumer checks and if it is determined that a fored stope excepts the weld the resources of levelife slope in product. The ollumbia slopes from Zhene C Visia are referred in \$100 months 22 for configure and additions above, accomplying beautiful on lower

In the case of materia wave conducter, the house for wave suprious as and set or

$$F_j = \sum_{i=1}^n G_i F_i \qquad (5.60)$$
 where  $G_{i,j}$  is solical stability Eq. 3.65 existing the generated waves length:  $M_i$  and waves period ...

the does not observe immediately ofter each rough warm action. The finale-

$$\begin{split} \hat{A}_i &= -ab_i \sum_{k=1}^{K} \left[ \partial \hat{\chi}_i - \hat{\Omega}_k + a \frac{h^2 - h^2_{i-1}}{2a^2} \right] \left( \frac{\partial \hat{\Omega}_{i+1} - a}{\partial \hat{\rho}_{i+1}} \right) \hat{\rho}_i \\ \hat{\theta}_i^{\prime} &= 10 \end{split}$$

$$\hat{\theta}_i^{\prime} &= 10$$

$$\hat{G}_i^{\prime} = -ab_i \sum_{k=1}^{K} \left[ \partial \hat{\chi}_i - \hat{\Omega}_k + a \frac{h^2 - h^2_{i-1}}{2a^2} \right] \left( \frac{\partial \hat{\Omega}_{i+1} - a}{\partial \hat{\rho}_{i+1}} \right) \hat{\rho}_i^{\prime} \end{split}$$

 $G_1^{\prime\prime}=H\sum_{k=1}^{\infty}\left[\left(D_{k,i}^{\prime\prime}-D_i+\alpha\frac{k_i^{\prime\prime}-k_i^{\prime\prime}}{2\epsilon}\right)\left(D_{k,i}^{\prime\prime}-D_i+\alpha\frac{k_i^{\prime\prime}-k_i^{\prime\prime}}{4\epsilon}\right)^{-1}T_{k}\right]$ 

ART + AME + CRS + G.  $A_i = \frac{1}{2a_{i+1}}, \ B_i = 0 \ 0, \ C_1 = -A_i, \ C_2 = \frac{1}{2a_{i+1}} \left[ C_{i+1}^{\alpha} - F_i^{\alpha} \right]$ 

# CHAPTER 6 MODEL CALIFRATION WITH LANGUATORY EXPERIMENTS

### 43 Servetore

Applicate of the same obtained from confident of the property of the confidence of

As no objective-contains for judging represent between the elected and concernly profile, the most dealer-upwared the delibration between measured and collections depths as used.

$$dSMZ = \sqrt{\frac{1}{2\pi}} \sum_{i=1}^{n} (d_i^{(n)} - d_i^{(n)})^2$$
(8.1)

in which represents to and a still to manused and produced position, respectively, and N in the extender of data process. The cours between the produced and absenced possible Note that K value at determined as the value validace the arrival boar \$546 error. In water used. Date et al. (2002) expected a detailed province of the receive faces were faces. 1962 by Sarith Glass are from Knees and Leesen 1995, the Leese Wave Physic of the Control Research Institute of Electric Power Industry (CREIPS on 1982 (Quantum at al. 1947, Lemm and Karon, 1965), and Garron wave Busin processing at \$1950; as Numerous, Generals, as \$160 1987 (Dates and Utilizate, \$1600 and as \$190 077 to control the MART IS SAFE around Opelant at 1, 1997. Amount them, 1977 and CRITTS were

# 6.1 ( Description of Experiments

Two warns of morable lend model approximates on board would advance were conducted in the test of the Newto-Research Secret 1965/77 and 1967 (exponential Kenny and Laman, 1989). The loss server of the exacts in the cross over of the best recovered with encoderments worse. The experiments included extreme profile retween departs each lest in decreams the approach in conditions. Only lessed by basic transacceres was made, mustly were leights of acopent beauting and sex up-begins

The apprintment were concluded when the six to we bound in this case. Becamines we following the C. H. Governor have 19 H. File to wear 14 the 19 H. See companied to the six of the 19 H. See companied to the six of the six of the 19 H. See companied to the six of the six of the 19 H. See companied to the six of the six of the 19 H. See companied to the six of the six of the 19 H. See companied to the six of the six of the 19 H. See companied to the six of the six of the 19 H. See companied to the 19 H. See condition of the 19 H. See companied to the 19 H. See condition of the 19 H. See condition

THE THE OF THE 12 points as included places makes shops, differency were gap undiamout candidated, wight immunished with enversal post files (Testa 196, 300, 400, 200, 200, 400, 100, and 900) and nevera with successorary post files (Testa 206, 400, 104, 201, 201, 700, and 601).

In The 18th depth weekfelder to the end of factors. The was a love of any Weekfelding for president in the factor statement, who was a factor of any world colors for the other president of the colors of the color

### 52276160

The here-fit X in then for both boson (x-1) and coolinear (x-1,1] marginal relationships of the first  $XX^2$  mass as based on Table 0.2. It appears that is express relationships with x-2 prevales overall level was seen separate receives and their first level of the first and the first level of the first l

The responsion of produced and manuscrip profile or influences are prosected in Tigger 4-5 in Figure 4-5 first first asset, respectively. In Authority, the Profile in their different lases are recognited. A primary profiles grown the ne profiles and and track for an according inshire their neglected. After the model cancer product the valle sough, was soften the primary officient from The accolumn advancable profiles in false specific volutions of the information and deven files, an advancable manuscrip and this series conditions of the information and deven files, an advancable manuscrip and this series.

Tes. No	Genn son (mm)	Wave beight (sec		Street depth inti	Decition (0x0)	N.
300	8.22	1 80	11.33	427	50	
400		142	56	442	40	10-9
500		1.52	3.29	437	100	13.25
404	940	142	3.9	40	66	5.36
906		1.02	3.79	437	60	6.12

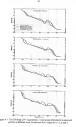
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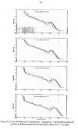
Too No			0+1		5+3	
	See Se K	Earner (bel)	Personal personal	Enor	Bendi K BOOK	Ero
500	1.3+13*		9.7%-19*		0.36+19 **	634
			14-11		099430 2	6.22
599	19-334	9.261	11-35	6363	3.7+20*	9.28
306	0.83x33*	9.267	9.67+15*	0201	\$27×30**	9.73
200	0961391	9.503	07519	0.3de	\$47×30**	9.12

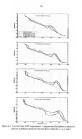
# 4.) CREEN Wave Flore Experiments

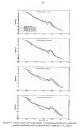
The work was questify the Good Good has been of Good with was been with a graph was a growing of the Good of Good of

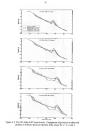
To distance (if that every 78 ans., were from every group, wheth the vertex of facts and given 3000-2000 from the very 700 and very 1000-2000 from the very 1000-2000 from the very 1000-2000 from 1000-2000 from the very 1000-2000 from 1000-2000 f











200								
No	H	T OH	Best la K	Leve	See link	Sene Oro	See Se K	See.
62			2.5×30*	0165	1.2v10 <sup>4</sup>	9.30	9.71(821	120

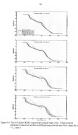
## 64 Groups Lavre West Florer

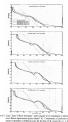
The Greece "begs were fitted" in Statement at 256 to long, T to  $\Delta \omega_0$  and S as N(S). State 1995, a sense of fresh profile expensions have been semborised in the Gase. Only was from 1995/1997 and 2996/2997 non-available, for the present enally

The paper of the first and experience in Thirt Till with expolythment of the manifest and experience in department of the Thirt, PRIV. The states into all more interest of the thirt, PRIV. The states are present were resident with the consideration of the states are contained as a set of the states and the states are designed in the state and the states and the st

Here, the one "sheer without Promition" is used for small collaboration. Dalta is a provider the results and Figure 6-7 proxima the comparisons between produced and

menoral profiles at four delicent cost sone





Terr	Sest Ru K Ox 700	Sew deal	Berdi K (n'sN')	Dese 0x0	Deside X Carly (N)	000
Dane wis freedom	23+10"	1379	0.79x10 <sup>4</sup>	9313	1.5+20 **	939

### . . . . .

700, is insequentes with the MAST II SEAT propert, representation on contract on a size from the MAST II SEAT propert, representation on the common and the contract profile of the development of the contract profile of the contract profile on the

Model State (Indian State (Ind

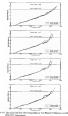
15 mix and comment of 165 worses. Figure 4-9 presents the codes and final annual are filled annual and final annual are filled and a state worse condition on Taxa Phase 1.

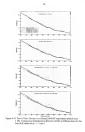
Chapie T. The health states for the reason was experienced and the product and the chapter T. The health states for the reason was for more was experienced and chapter to the competitude between professed and managed profile evolutions on elements. Figure 4-0-yra Figure 4-13, trapperatory. This developments over the reason of the reason

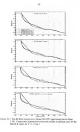


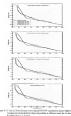
Figure 4-8: Profile promotions for New American proportions to Tital Place I of Gareau 1994-1997 experiments

	3+1		4-2		3-3	
Test No			Bee-Critic (en/s/N)			
AF(1.20)			848-30*			
B2 (119)	23-10*	03793	16-00"	0.0626	3.540611	5 048
C3 (1 B)	13-10*	0.0721	441-00*	0.0834	9.75×10 <sup>12</sup>	5 6647
H2 (113)	13+10*	9961	4.66×10 <sup>4</sup>	0.0765	\$30×10 <sup>14</sup>	3 56+2

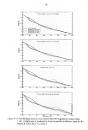








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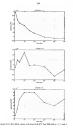
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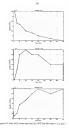
A sold of clown large-scale represents from the different wave forces as employed the On-model admission and compresses of the force and another transport, exhibition forces of these lesis was standard with monochemical wave sandards and the other force was calcied that with contract transport from high any theresholded with different relational stans, senter profiles, and models were conditions.

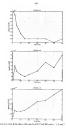
The constructions not construct expose security to replace by an example policy and an extraction of the construction of the

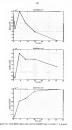
The father investigate the account or influencing the best (iii) by value (above x). Pagings of +(14.47) for such anti-valued in executed profiles and determined more  $\phi$  is some content of -12.47 for such and white -12.47 for such and -12.47 for -12.47











erosion (Dong, 1994, Zhong and Dong, 1995). Figure 4-18 shows comprehense of the moneyed and the hot-fit producted most before the short-coronigant area. "It

her 9.896 each as present in Table 4.1. The transport shadowing with 4.1 gives the hear fit for Toron CEXX and CEXX, while 5.1 has the hear fit for Toron

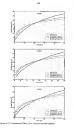
CONFINED CREEPS 2. Our entered frames in COSO one is that there are appel charge in the emfort veloce often of hours wave across. If coaleding the profile produces share 60 hours, x = 2 gives the first \$6 and also obtain the thin say.

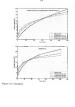
with s=1 in twen egypopous to the const-along pool in model. The transpose coefficient  $K=0.70\times10^4~{\rm eV/V}^2$  is a tripped assuming to the average of the lens (if K volumes the others have

740 67 Bed 6 SMS monological release time mis-

-	4-1	0-3	1-3			
CE300	3.19"	1.07	2.61			
CE400	247	147	179			
CE300	1.64	2.23	316			
CE500*	179	850	116			

The successment of the 60 hours are excluded to the calculation.
 The EAS is not because produced and more and enriched explorar, defined as Eq. 6.





# CHAPTER I

In Organ of community was well that it is required to the community of the

The rivers expressions dottabed in Chapter 6 are unlabed on the evolutions of the connections middle with the faint average K value. The regul values of several pollutions to the model are nationalized below.

- The breaking union, y=0.7
- The druly confluence, K., and could wave being to confluence, F., an the DF we model are taken as 0.13 and 0.4, respectively.
- The disruption coefficient,  $\mathcal{A}_{\mathcal{C}}$  is the radial residul in set to  $\theta$
- The limiting methods and efficient alogue for evolutioning are 9 18 and 9 2 respectively.

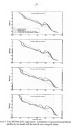
The denotion of the profile depth root enters appear enters (defined as the 4-1) learness the enterth of the entering K value and the individual here the K value is above the enterth endustrial parameter.

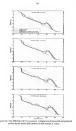
$$\Delta m = \frac{EidS_{\gamma} - EidS_{\gamma}}{EidS_{\gamma}}. \tag{1.1}$$

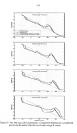
where Dev denotes a two-demonstrated denotes, EMEs is the cost interacquies some of the proofer depth, the subverget field in remote deversable of the model of produces with the surregular of levels. As others, respectively. He is produced over the energies of levels of the cost of levels and the energies of levels of the cost of levels of leve

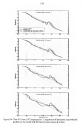
The model model of the processor again areas to approximate in Table in the series representation. Figure of 1 in 5-fit, there the comparation of the pulsation g volume in the first exceptions. Easier as facility produced in the series of the series (x,y) and (x,y) and (x,y) and (x,y) are the confidence of the confidenc

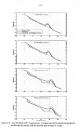
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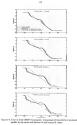


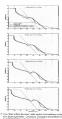






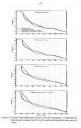


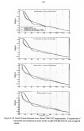




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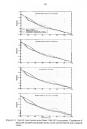


Table 3-1 Someone square errors of profile depths produced by the model with best for and creation E-values and the assessmentage dependence.

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## 3.3.1 Influence of Broading Index y

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Figure 5-17. Effect of warry desprised fished on another volu-





CLA behavior of Confliction Courty Disclosure

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3.5 Influence of Wirer Shocks and Paried

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Total Control



From 5-15 What all of bloom breaker should as no readed with



Figure 5:30: Congression of cheaned and predicted profile evolution for vacuable water

# 5.4 Initial Deark Steps Effect

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(6.1)

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## 6 LL SUPERTANK Project

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The new annihilates convertigated as the present analy are commended in Table 6-1. The divertigand model work the recommended K values and other definite paramount as archited in those testing and for requiring an extrement to those producted by SMI a CM. (versus 2.0). The default value for the transport coefficient in SOEACE is 1.75+19\*
of N and other made comments are also believe as the parameter default values.

Table 6-1. Summary of the tests conditions in the SLEEKTANK project.

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\$7,00	Equilibrium eronos (econolecentes)	0.8	1.0
5T_39	Native mosed	0.2	30
8T_100	Erost mesod	0.7	3.0

# 6 3.3.2 Equilibrium crosion (random wayse)

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## 61 LJ Equilibrius crotics (accessbrownis warret

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Figure 6-1. Result of motol samulation, SUPERTANK PLA.



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Figure 6-6: Result of model monthships, BUPERTAYON FE.

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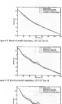
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Figure 6-12 Result of model simulation, LTP 11D Test 2s

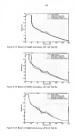


Figure 6. 16 shows the methods of the model production for all tests in LEP LED experiment. The resolution SEE-ACE and CRASSE are above the cases except in Tase. So for whole the SEE-ACE resolute is the mainter of the case. However, the transport is an approximate forming the same various dates.



Paper 4-10. Exclusion for SMEACH and convent model, UP 11D experiment

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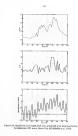
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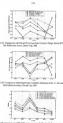


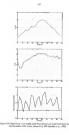
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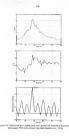
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Table 6-4 Minored value	sheeps during the NI storm and adjustment day			
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Figure 4 Dr. Comparison of calculated and suggest measured profile of the NI stem for the profile at 63rd stems, Ocean City, NES



Pigare 1-27 Compression of calculate and disched assurant profile of the NC enem for the sanifer or Claff around Forces Core MED

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Pages 8-28 Companies of measured and six



Figure 6-29 Companion of minimum in the NV attors, Ocean Cay, M.



Figure 6-30. Section h for SDEACH and current model for the NJ stores, Copes Cat MD

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Spree 6-38. Penhandis Court of Florida (Lucidos et al., 199



list Harmann Librar (reproduced from Knobel 2001)

Profile response: Under far Birthelt Contact Constructions defeated. List Phagmac, the control arms promotily although by Elevanian Elosa in Birty, Walson and Chailman. Contains arms surveyed or October 1757, with beach done profiled in approximately profiled and analysis of the Contact Contact arms of 1000 feet, and althhose susceding on emp 2000 feet. Prefit Stems parties; were considered within 2.4 wholes after the storm on October 1755 at Walter County.

storm. Newword the managed profiles showed that there was approved below as onthe beach was work with professions and professivenessed later the damage they was lette emoca, whereas is the constitucion areas with consent weak sizes and rand during described refress the resonancement of the basis. Also over 30 and the should a par he attributed as need to these sensions of assertioning (1) presenting conflict and discusses and above the assumes level on the pero states profiles in Walton Density was found to of the haloted according the beach five year to the post steem energy (Chin, 1977). No officions have not factored on the post-states profiles which may be because the stress was

The pre-stock and per-storm profiles are shown in Pigura 6-33. All these conductions the date or treatment substantially. The above manifested from two factors in profile interest any conduct the seaso consecute decision.



Figure 6.53 Compension of colonical and consumed profile of the Hermanne Stone for the profile of St-41. William County, PL 4.3.3.1 Hermanne Opel

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Teylorade cestilities. The wee some TOAA shows the reposited day Opel proved decouple of Add and only load (if your 6-34). When does reduced at the Addition-theay season ACOA shoulds as assessed to Add to ToAAA once, as shown in Figure 6-35. The date of the station shows the discusses receive as week loagit and demands were prival at Opal translated across the CACI, were though Opal's bank were pairs.



Figure 6-34. NOAA data collection statums that enumbed Opel data (J. no/my et al., 1900). Novem surger-free retrained from a Necounal Goost Survey to be page located as the

Presence Cry Decks Exer (see Monament line E-45) is alread as Figure 6-31. The peak recent resp deviated as shown as 4-35 as along the MoVEM dates. The along again referred the date over the control and of the peak power law based date assembled as deviated. A clean straight and command a speak more usage at the electrolecture for fines of 3-7 in 44.9 m/MOVEM (Lander et al., 1994), which is assembled with a remotive of things the second of the control of the con was savis surviyed in the hadwade by FDEP and act other surviyed below that



velocie overallu eccepte)



Figure 6-36 Sieven serge hydrograph for Elevanos Opd at Fanans Cop Sauce (Lauda at al., 1995)

Brack and does wreden. Darmous Open's substantial stem suggested bracking area neverly studied the brack and date system throughout the Probately Cost.

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Figure 6-40: Competition of colorated and mannered profiles the attackons Opel, profile to 2.4.1, Bry Chartey FL.

6.1 Security:

Sebeniery represents (SEPERTANK and LIP 110) and field data-(Octoo City, MD, Elemente Elemente Teammen Opin) for prices scoops, and compared the south with the profile emission models SEPLATE and CROSS - Quantizas cleaves a creduct for model professione evaluate residual of geofale change, volume sharpe above adopte about the uniformation of a selected method.

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## CHAPTER? SEMINARY CONCLUSIONS AND RECOMMENDATION

## 211 Sec.

and in, a self-reside a cool that one include representation of the factors and in. As worked, draftle every selective analogical to poles the sublimite transport and consequenequations represently. An office or code to account for the wars official on residence G = 65P = PLSP = PLST 1. Up to street large-scale wave during Informative operation. I was three delivered facilities and acceptanted to coldenda and compare the perference discovered as the veloc publicy the covered host appears over of profile changes to each core. Street he the califestion results, it is found that the next force beenpost rais.

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The present examinal model is this is sensitive brack profile cocketion under both neurobiomatic and analysis wave-workfrees. Based on the environgenous conducted and souther those the subsequences are offered. (1) The ration set of a surface after model with a technic broken; were rould provide a reliased best fire for providing. The rather model express the log horseus until wave broken; and execution wave energy decayation. A new equalitizate head profile shape on developed, which our represent her profiles.

releasy personne (FWT) ecours for the effects of west observations as both yer file shape and provides an explanation for ecoursal abstralce changes in unitar (FWT) account, as 2.5 in the industrial transport resistors were due before

opmoment in the Inhomizery date flow values used in previous chosed loop models (s = 1 and 2) under reconsiderate in water. The determined between the inhomized points represent time under all profile contributes under Chitests untital profile and wave conditions. This transport confidence (N of 0.10 of 0.10 of 1.10 of 1.10

(4) The transport relationship with z = 1 grounds the hear-fit to models or west test. The enters probably to that the generated waves soung the vero-bip-wave appeads has different that the second wave serial governed on the vero disease, whitesylvides assumances for the resonances.

(5) The model is remarked autolities as time of the model using a parameters with the exciption of ware pound. The model assembling we were person may be for in the shallow ware source reconstruction which this model is appealed. The size is breaff to the limit is beauth ships has some with most one of the limit problement beauth graffer where, without got in this beauth ships has some with most one of the limit problement. The or collections. (c) The moin wife audience transport coefficient K, when integrand by Fiscole scaling, has moin if (height)<sup>(i)</sup>. Then when applying their model in field infections, it is admitted to audience the K writer if provide or in econoder scaling hand on susualization of field and model senter.

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## 7.3 Economic desires for Fature Stat

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# APPENDIX A

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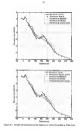
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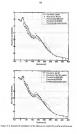
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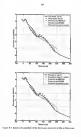
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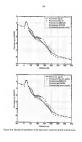
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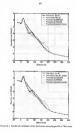
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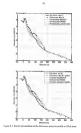


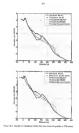


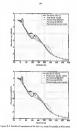


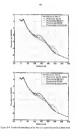


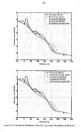


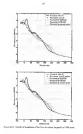


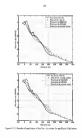












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